

Special Issue

Coastal Hazards Assessment in Cold Regions

Message from the Guest Editors

Studies on coastal hazards and risks around the world are generally focused on systems not affected by sea ice or other cryogenic processes. Under a changing climate where temperate to high-latitude seas suffer from sea ice and ice foot shrinking, protection against wave energy is weakened and higher risk can be expected during storms. In cold regions, the effects of coastal permafrost thawing, frost processes, storm surge, sea level rise, tsunamis, sea ice, and ice foot needs to be considered in coastal hazards assessments for effective risk reduction and adaptation strategies. In this Special Issue entitled “Coastal Hazards Assessment in Cold Regions” we invite authors to submit papers that address all hazards on coasts seasonally affected by sea ice dynamics, frost action, and other processes in the cryosphere. We also welcome papers focused on risk assessment for coastal communities and infrastructures, as well as adaptation strategies to reduce their vulnerability to coastal hazards in cold regions.

Guest Editors

Prof. Dr. Pascal Bernatchez

Coastal Geoscience Chair, Centre for Northern Studies, Québec Océan, University of Quebec in Rimouski, 300 Allée des Ursulines, Rimouski, QC G5L3A1, Canada

Dr. David Didier

Geological Survey of Canada - Atlantic, Natural Resources Canada, 1 Challenger Dr, Dartmouth, NS B2Y 4A2, Canada

Deadline for manuscript submissions

closed (10 September 2021)



Journal of Marine Science and Engineering

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.0



mdpi.com/si/38827

Journal of Marine Science and Engineering
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
jmse@mdpi.com

mdpi.com/journal/jmse





Journal of Marine Science and Engineering

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.0



[mdpi.com/journal/
jmse](https://mdpi.com/journal/jmse)



About the Journal

Message from the Editor-in-Chief

The *Journal of Marine Science and Engineering* (JMSE, ISSN 2077-1312) is an international peer-reviewed open access journal which provides an advanced forum for studies related to marine science and engineering. The journal aims to provide scholarly research on a range of topics, including ocean engineering, chemical oceanography, physical oceanography, marine biology and marine geosciences. We invite you to publish in our journal sharing your important research findings with the global ocean community.

Editor-in-Chief

Prof. Dr. Charitha Pattiaratchi
School of Engineering, The UWA Oceans Institute, The University of
Western Australia, Perth, WA 6009, Australia

Author Benefits

High Visibility:

indexed with Scopus, SCIE (Web of Science), Ei
Compendex, GeoRef, Inspec, AGRIS, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Marine) / CiteScore - Q2 (Ocean
Engineering)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is
provided to authors approximately 15.6 days after
submission; acceptance to publication is undertaken in 1.9
days (median values for papers published in this journal in
the first half of 2025).